SERV. 34 004

AM/FM STEREO RECEIVER

SX-750

HG , S

<ART-185-0>

Additional

Service Manual

This leaflet provides the description of the parts applies only to the HG, S model.
For detailed please refer to the Service Manual of SX-750/KC, KU.

PIONEER®

MODEL SX-750 COMES IN FOUR VERSIONS DISTINGUISHED AS FOLLOWS:

Type	Voltage	Remarks
KC KU	120V only	CSA (Canada) and UL (U.S.A) approved with de-emphasis selector switch (25μs/75μs)
HG	220V and 240V (Switchable)	SEMKO (Sweden), NEMKO (Norway), DEMKO (Denmark) and EI (Finland) approved
S	110V, 120V, 220V and 240V (Switchable)	General export model with de-emphasis selector switch (25μs/50μs/75μs)

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MODEL DIFFERENCE TABLE

Except for the items listed in the following table the parts and circuitry are as described in SX-750/KU, KC service manual. The locations of parts as used in the SX-750/KU, KC are shown in the brackets.

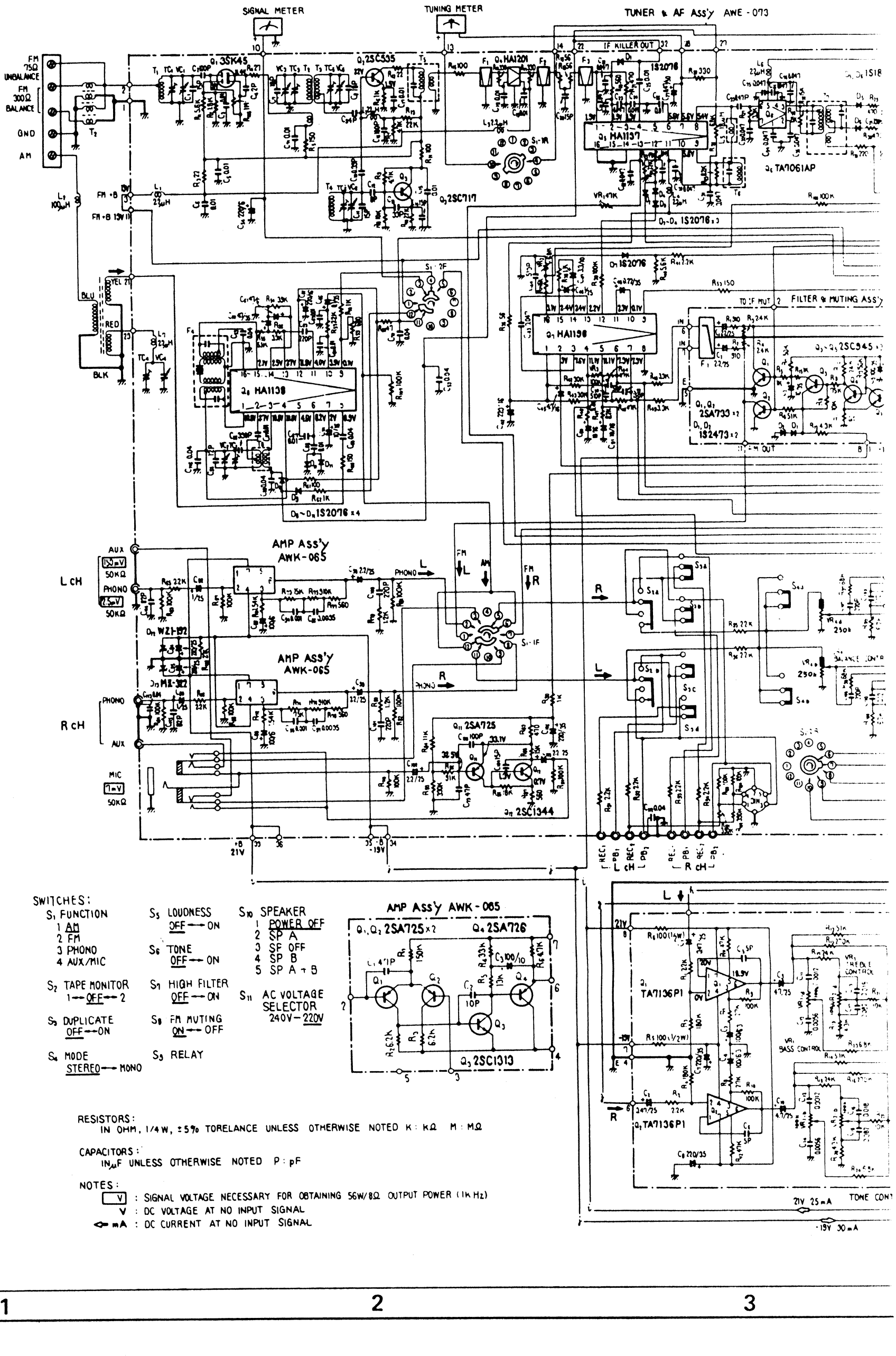
Description	Model		
	HG	S	KU·KC
Power Supply Assembly (page 62)	AWR-116 ✓	AWR-100 ✓	AWR-100
De-emphasis Switch Assembly (page 74)	–	AWX-100 ✓	AWX-095
Wooden Cabinet (page 36 5-B block)	AMM-054	AMM-053 ✓	AMM-053
Terminal (antenna) (page 43 2-D block)	AKA-007 ✓	AKA-002 ✓	AKA-002
Power Transformer (page 38 2-A block)	ATT-325 ✓	ATT-324 ✓	ATT-264 (KU) ATT-301 (KC)
Fuse FU1 (page 46 4-B block)	AEK-405 (1.6A)	AEK-104 (1.5A)	AEK-104 (1.5A)
Fuse FU2 (page 46 4-A block)	AEK-401 (500mA)	AEK-107 (500mA)	AEK-107 (500mA)
Fuse FU3, FU4 (page 46 4-A, block)	AEK-031 (800mA)	AEK-111 (800mA)	AEK-111 (800mA)
Fuse FU5 (page 46 5-A block)	AEK-403 (2.5A)	110V, 120V AEK-100 (4A) 220V, 240V AEK-103 (2A)	AEK-100 (4A)
Line Voltage Selector	AKX-037	AKR-033 ✓	–
Rotary Switch (SPEAKER) (page 42 2-C block)	ASA-040 ✓	ASA-038 ✓	ASA-039
Fuse holder (1P) (page 38 2-C block)	K91-008	–	AKP-032

Description	Model		
	HG	S	KU·KC
AC Inlet	AKP-008	–	–
Capacitor C3 (page 46 5-A block)	ACG-001	ACG-001	ACG-003
Capacitor C4 (page 46 5-A block)	–	ACG-001	ACG-001 (KU) ACG-003 (KC)
AC Power Cord (page 43 2-A block)	–	ADG-002	ADG-005
Operating Instructions (page 44)	ARB-184 (English) ARD-094 (German/ French)	ARB-181	ARB-174

Specifications	HG	S	KU·KC
Power Requirements	220V 240V 50Hz	110V 120V 220V 240V 50/60Hz	120V 60Hz
Power Consumption	430W	350W (Max)	350W

1. SX-750/HG model

1.1 SCHEMATIC DIAGRAM



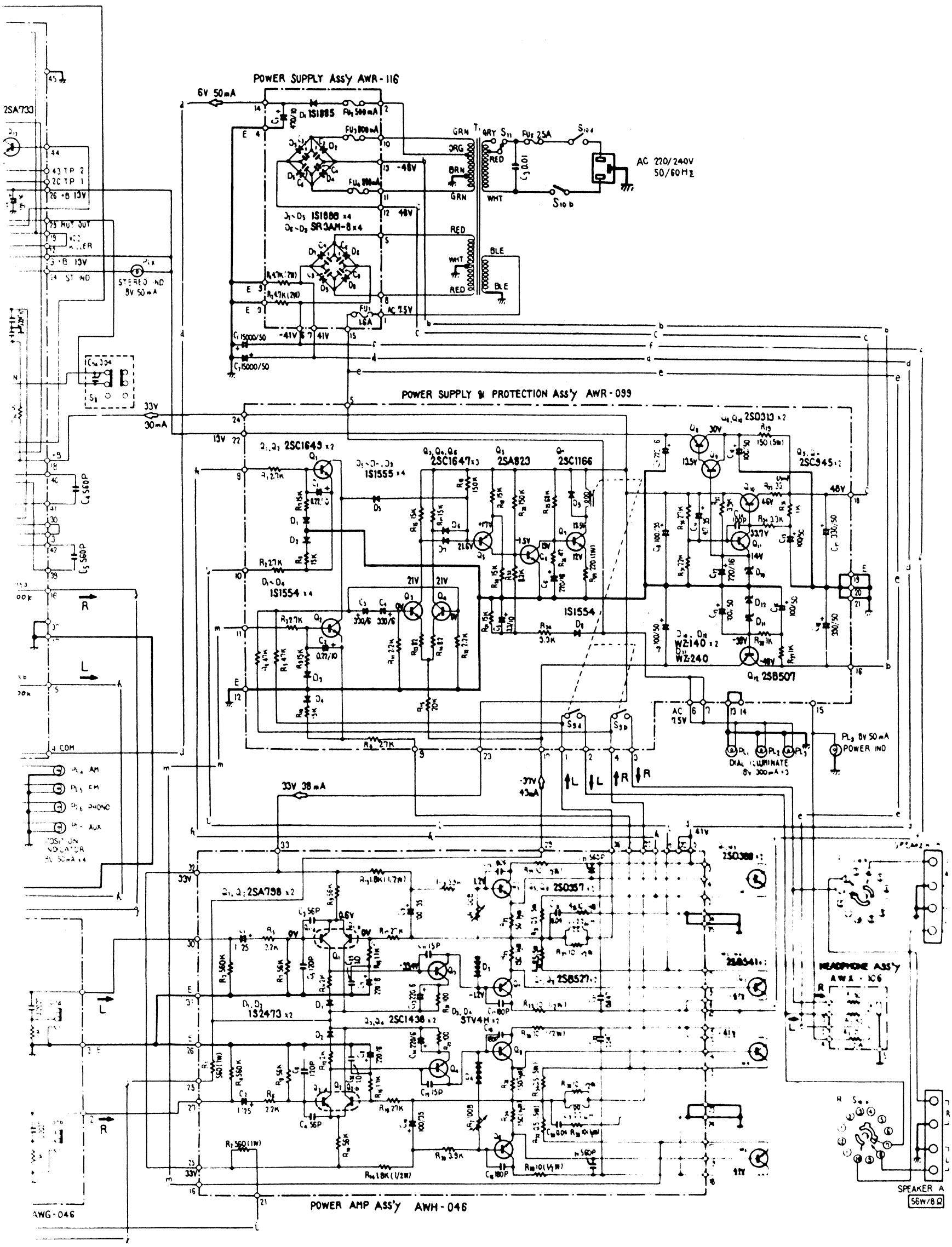
SWITCHES:

- S_1 FUNCTION: 1 AM, 2 FM, 3 PHONO, 4 AUX/MIC
- S_2 TAPE MONITOR: 1 — OFF — 2
- S_3 DUPLICATE: OFF — ON
- S_4 MODE: STEREO — MONO
- S_5 LOUDNESS: OFF — ON
- S_6 TONE: OFF — ON
- S_7 HIGH FILTER: OFF — ON
- S_8 FM MUTING: ON — OFF
- S_9 RELAY
- S_{10} SPEAKER: 1 POWER OFF, 2 SP A, 3 SP OFF, 4 SP B, 5 SP A + B
- S_{11} AC VOLTAGE SELECTOR: 240V — 220V

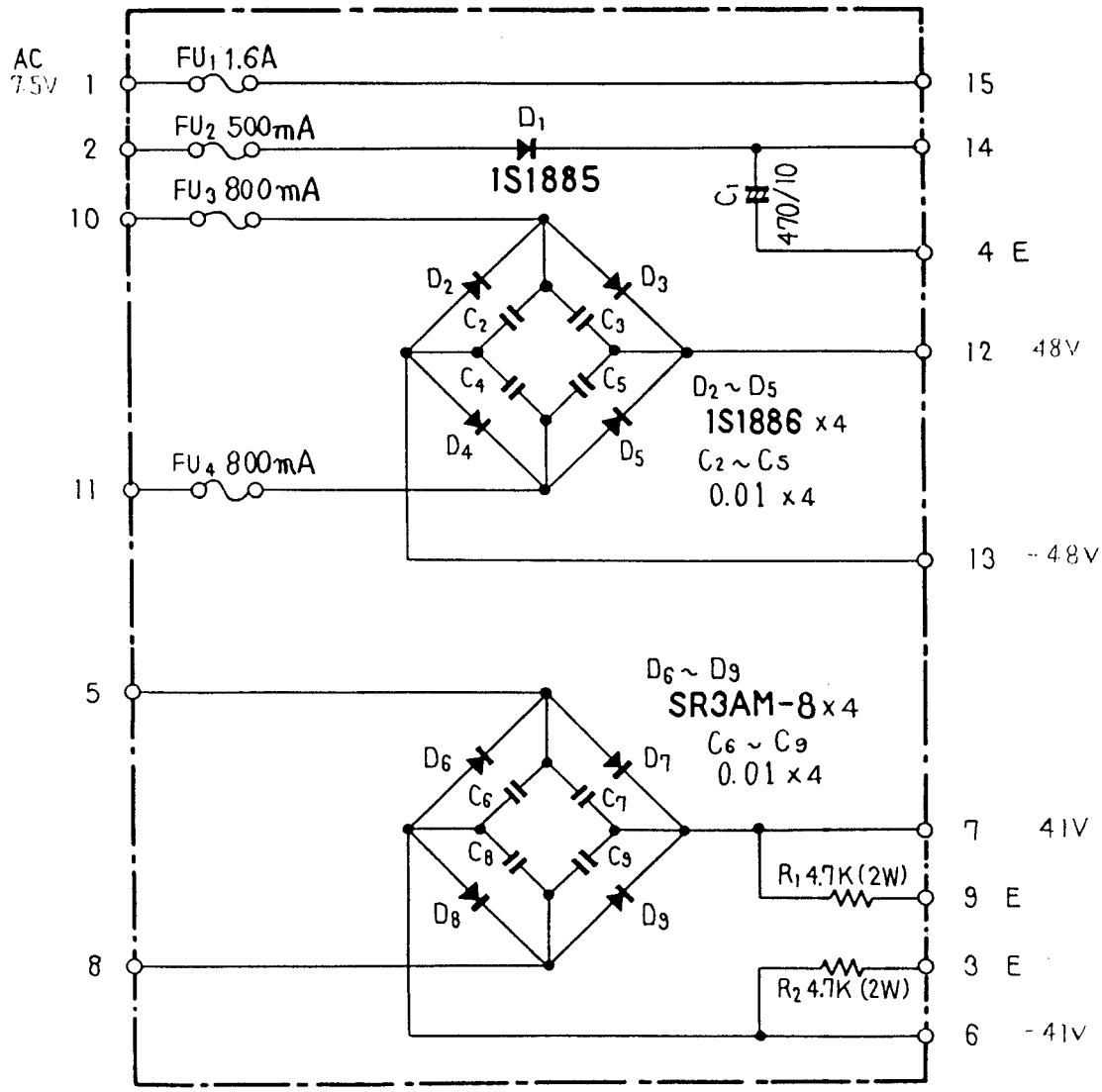
RESISTORS:
IN OHM, 1/4W, ±5% TORELANCE UNLESS OTHERWISE NOTED K : kΩ M : MΩ

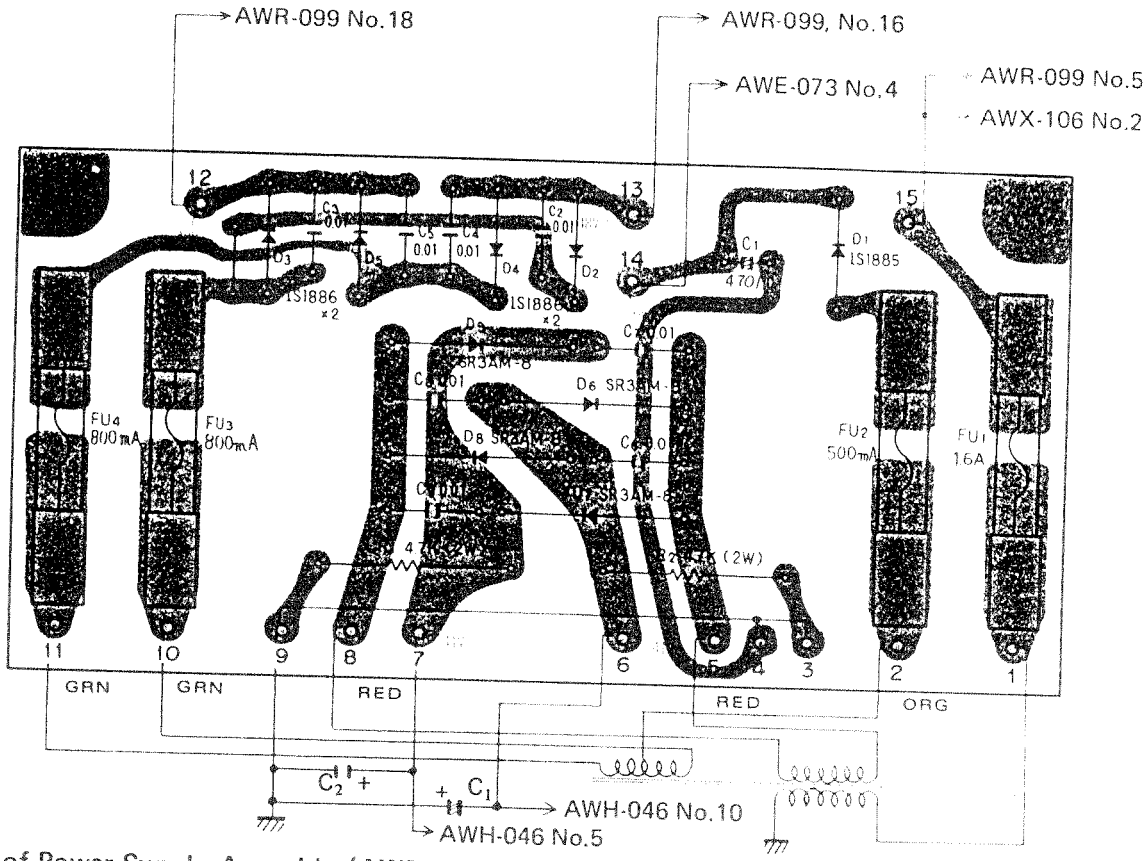
CAPACITORS:
IN μF UNLESS OTHERWISE NOTED P : pF

NOTES:
[V] : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 56W/8Ω OUTPUT POWER (1kHz)
V : DC VOLTAGE AT NO INPUT SIGNAL
mA : DC CURRENT AT NO INPUT SIGNAL


POWER SUPPLY Ass'y AWR-116
6V 50mA
D1 1S1885
Fu1 500mA
FU2 800mA
FU3 800mA
FU4 800mA
GRN
ORG
BRN
GRN
WHT
RED
GRY
RED
WHT
BLE
RED
BLE
S11
Fu5 2.5A
S10a
S10b
AC 220/240V
50/60Hz
C3 0.01
D1~D3 1S1888 x4
D4~D9 SR3AM-8 x4
-48V
48V
AC 7.5V
Fu1 1.6A
C1 15000/50
C2 15000/50
-41V
41V
POWER SUPPLY & PROTECTION Ass'y AWR-099
33V
30mA
13V
Q1,Q2 2SC1649 x2
D1~D3 1S1555 x4
Q3,Q4,Q5 2SC1647 x3
Q6 2SA823
Q7 2SC1166
D4~D6 1S1554 x4
1S1554
Q8,Q9 2SD313 x2
Q10 2SC945 x2
Q11 2SB507
D8,D9 WZ140 x2
WZ-240
21V
30V
13.5V
48V
33.7V
14V
-30V
-48V
AC 7.5V
S9a
S9b
PL1 PL2 PL3 8V 300mA x3
DIAL ILLUMINATE
PL4 8V 50mA
POWER IND
33V 38mA
-37V
43mA
41V
L
R
COM
AM
FM
PHONO
AUX
POSITION INDICATOR
PL 50mA x4
S8
2SA733
STEREO IND
8V 50mA
POWER AMP ASS'y AWH-046
Q1,Q2 2SA798 x2
D1,D2 1S2473 x2
Q3,Q4 2SC1438 x2
Q5,Q6 STV4H x2
Q7,Q8 2SD388
Q9,Q10 2SD357
Q11,Q12 2SB527
HEADPHONE Ass'y
AWX-106
SPEAKER A
5W/8Ω
AWG-046

1.2 POWER SUPPLY ASSEMBLY (AWR-116)





Parts List of Power Supply Assembly (AWR-116)

SEMICONDUCTORS

Symbol	Description	Part No.
D1	Diode	1S1885
D2	Diode	1S1886 or SIB-01-02
D3	Diode	1S1886 or SIB-01-02
D4	Diode	1S1886 or SIB-01-02
D5	Diode	1S1886 or SIB-01-02
D6	Diode	SR3AM-8
D7	Diode	SR3AM-8
D8	Diode	SR3AM-8
D9	Diode	SR3AM-8

CAPACITORS

Symbol	Description			Part No.
C1	Electrolytic	470	10V	CEA 471P 10
C2	Ceramic	0.01	250V	ACG-001-0
C3	Ceramic	0.01	250V	ACG-001-0
C4	Ceramic	0.01	250V	ACG-001-0
C5	Ceramic	0.01	250V	ACG-001-0
C6	Ceramic	0.01	250V	ACG-001-0
C7	Ceramic	0.01	250V	ACG-001-0
C8	Ceramic	0.01	250V	ACG-001-0
C9	Ceramic	0.01	250V	ACG-001-0

OTHERS

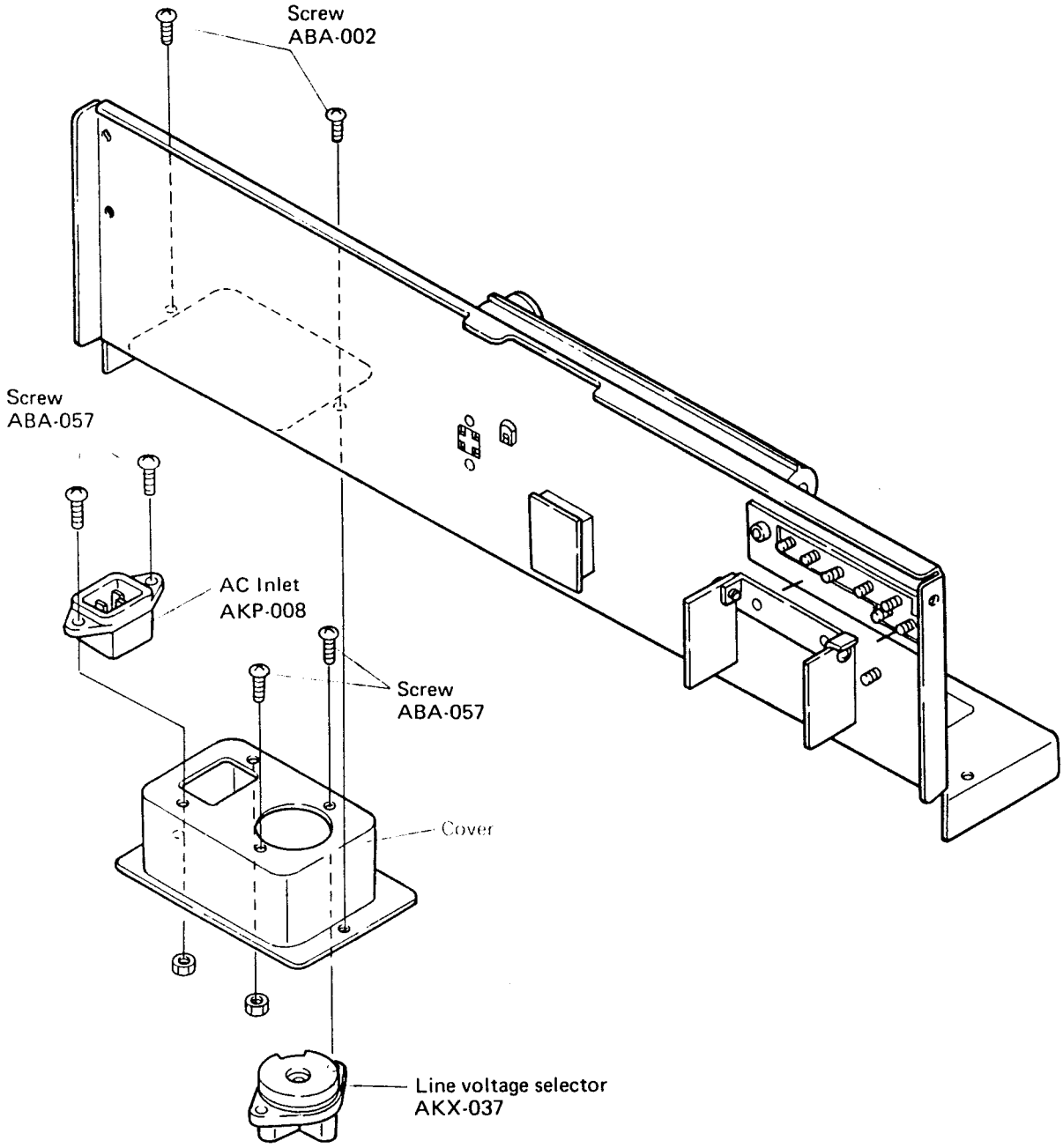
Symbol	Description	Part No.
	Fuse clip	AKR-010-0

RESISTORS

Symbol	Description			Part No.
R1	Metal oxide	4.7k	2W	RS2P 472K
R2	Metal oxide	4.7k	2W	RS2P 472K

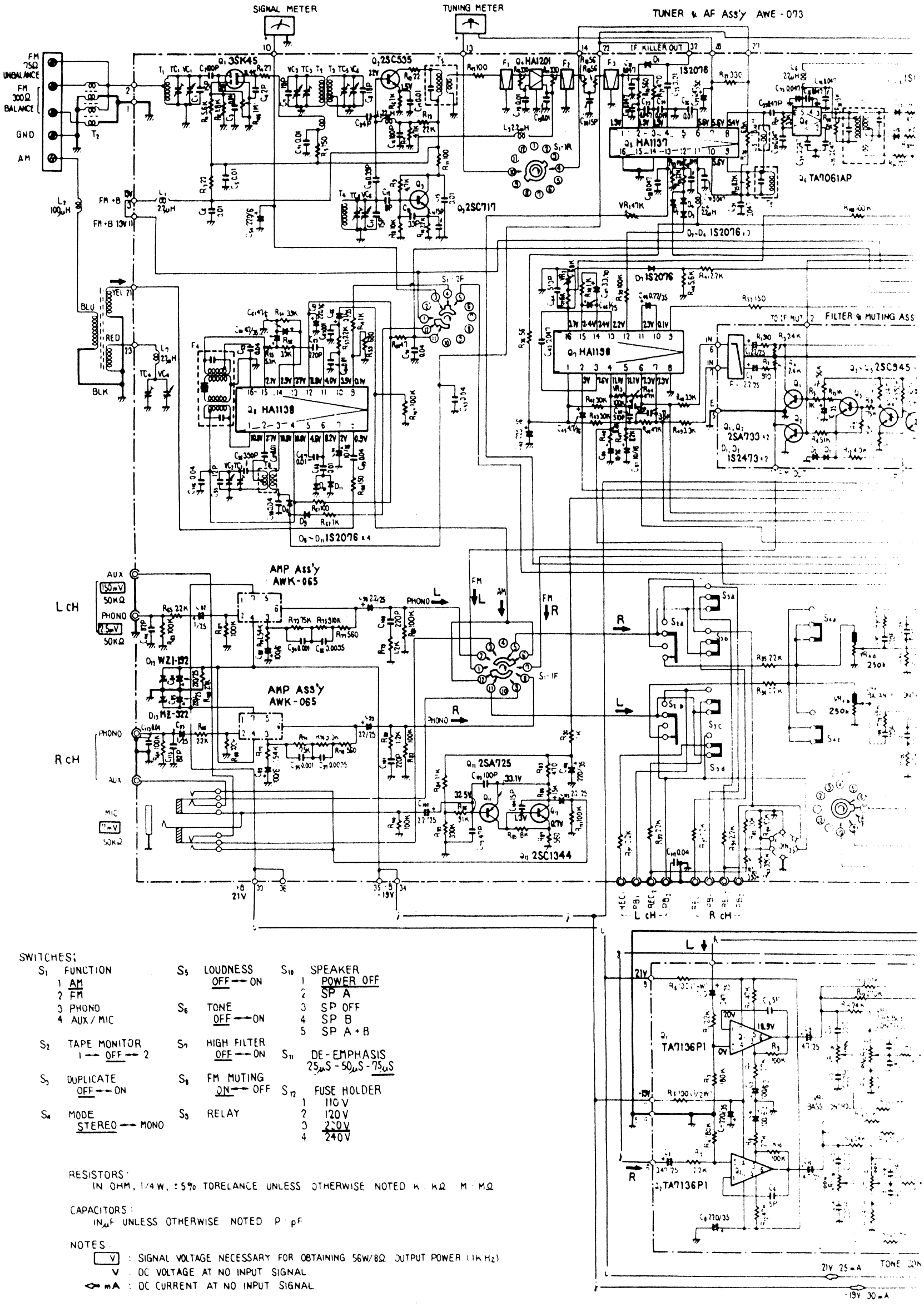
1.3 EXPLODED VIEW

The parts indicated by designation and part numbers are newly-employed in the HG model.
The parts without description are the same as the parts in the K model.



2. SX-750/S model

2.1 SCHEMATIC DIAGRAM



SWITCHES:

S_1	FUNCTION 1 AM 2 FM 3 PHONO 4 AUX / MIC	S_5	LOUDNESS OFF ⟷ ON	S_{10}	SPEAKER 1 POWER OFF 2 SP A 3 SP OFF 4 SP B 5 SP A+B
S_2	TAPE MONITOR 1 ⟷ OFF ⟷ 2	S_6	TONE OFF ⟷ ON		
S_3	DUPLICATE OFF ⟷ ON	S_7	HIGH FILTER OFF ⟷ ON	S_{11}	DE-EMPHASIS 25μS - 50μS - 75μS
S_4	MODE STEREO ⟷ MONO	S_8	FM MUTING ON ⟷ OFF	S_{12}	FUSE HOLDER 1 110V 2 120V 3 220V 4 240V
		S_9	RELAY		

RESISTORS:
IN OHM, 1/4W, ±5% TORELANCE UNLESS OTHERWISE NOTED K : KΩ M : MΩ

CAPACITORS:
IN μF UNLESS OTHERWISE NOTED P : pF

NOTES:
- [V] : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 56W/8Ω OUTPUT POWER (1kHz)
- V : DC VOLTAGE AT NO INPUT SIGNAL
- ⟷mA : DC CURRENT AT NO INPUT SIGNAL

4 5 6

A

B

C

D

AMP Ass'y AWK - 065

Q_1, Q_3 2SA725 x2 Q_2 2SA726

Q_4 2SC1313

POWER SUPPLY Ass'y AWR - 100

6V 50mA

D_1 1S1885 FU_3 0.5A

FU_2 0.8A

$D_1 \sim D_5$ 1S1888 x4

$D_6 \sim D_9$ SR3AM-8 x4

FU_4 0.8A

FU_1 1.5A AC 7.5V

-41V 41V

48V -48V

GRN ORG BRN GRN RED WHT BLU RED BLU

T_1

GRY 120V RED 110V BLK ORG BRN 120V TEL 100V WHT

FU_5 S_{10-a} S_{10-b}

4A: 110.120V 2A: 220 240V

C_4 0.01 C_5 0.01

SWITCHED 100W UNSWITCHED 300W

AC 110V 120V 220V 240V 50/60 Hz

① ~ ⑧ FUSE HOLDER TERMINAL NO.

POWER SUPPLY & PROTECTION ASS'y AWR - 099

33V 30mA 13V

DE - EMPHASIS ASS'y AWX - 100

Q_1, Q_2 2SC1649 x2

$D_1 \sim D_4$ 1S1554 x4

$D_5 \sim D_7$ 1S1555 x4

Q_3, Q_4, Q_6 2SC1647 x3 Q_5 2SA823 Q_7 2SC1166

1S1554 D_8

Q_8, Q_{10} 2SD313 x2

Q_9, Q_{11} 2SC945 x2

D_{10}, D_{11} WZ-140 x2 or WZ-240

Q_{12} 2SB507

S_{9-a} S_{9-b}

PL_1 PL_2 PL_3 DIAL ILLUMINATE 8V 300mA x3

PL_4 8V 50mA POWER IND

33V 38mA -37V 43mA

Q_1, Q_2 2SA798 x2

Q_3, Q_4 2SC1438 x2

D_1, D_2 1S2473 x2

D_3, D_4 STV4M x2

Q_5, Q_6 2SD357 x2

Q_7, Q_8 2SB527 x2

Q_1, Q_2 2SD388 x2

Q_3, Q_4 2SB541 x2

SPEAKER B

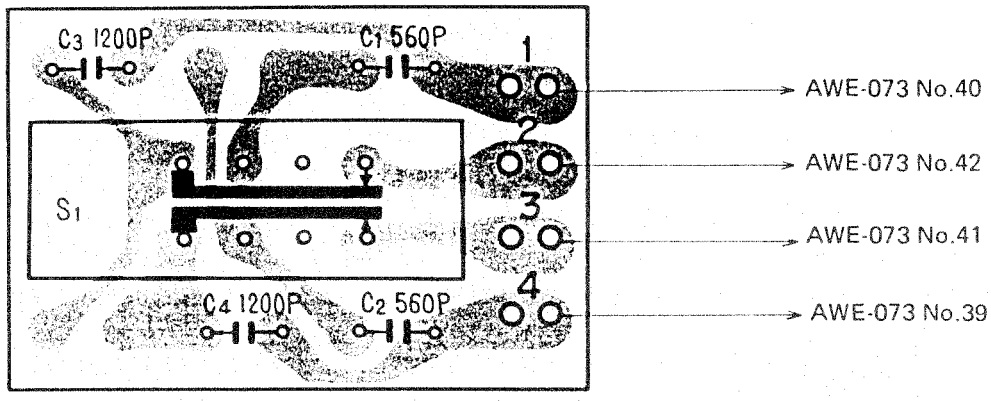
HEADPHONE ASS'y AWX - 106

SPEAKER A 56W/8Ω

POWER AMP ASS'y AWH - 046

AWG - 046

2.2 DE-EMPHASIS SWITCH ASSEMBLY (AWX-100)



Part List

Symbol	Description	Part No.
S1	Slide switch (DE-EMPHASIS)	ASH-017
C1	Polystyrene capacitor 560p 50V	CQSA 561J 50
C2	Polystyrene capacitor 560p 50V	CQSA 561J 50
C3	Mylar capacitor 0.0012 50V	CQMA 122J 50
C4	Mylar capacitor 0.0012 50V	CQMA 122J 50

2.3 EXPLODED VIEW

The parts indicated by designation and part numbers are newly-employed in the S model.
The parts without description are the same as the parts in the K model.